

Version	Revision Date:	SDS Number:	Date of last issue: 2024/04/06
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#### **1. PRODUCT AND COMPANY IDENTIFICATION**

Product name	:	Sulfamethoxazole / Trimethoprim Injection Formulation			
Manufacturer or supplier's details Company : MSD					
Address	:	No. 485 Jing Tai Road Pu Tuo District - Shanghai - China 200331			
Telephone	:	+1-908-740-4000			
Emergency telephone number	:	86-571-87268110			
E-mail address	:	EHSDATASTEWARD@msd.com			
Recommended use of the chemical and restrictions on use					
Recommended use Restrictions on use	:	Veterinary product Not applicable			

### 2. HAZARDS IDENTIFICATION

#### Emergency Overview

Appearance Colour Odour	:	liquid light yellow No data available			
May be harmful if swallowed. Causes severe skin burns and eye damage. May cause respiratory irritation. Suspected of damaging the unborn child. May cause damage to organs through pro- longed or repeated exposure. Very toxic to aquatic life with long lasting effects.					
GHS Classification					
Acute toxicity (Oral)	:	Category 5			
Skin corrosion/irritation	:	Category 1B			
Serious eye damage/eye irri- tation	:	Category 1			
Reproductive toxicity	:	Category 2			
Specific target organ toxicity - single exposure	:	Category 3			
Specific target organ toxicity -	:	Category 2			



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repea	ated exposure		
Short hazar	-term (acute) aquatic rd	: Category 1	
Long- hazar	-term (chronic) aquatic rd	: Category 1	
GHS	label elements		
Haza	rd pictograms		
Signa	al word	: Danger	<b>v v v</b>
Haza	rd statements	H314 Causes H335 May cau H361d Suspec H373 May cau peated exposu	harmful if swallowed. severe skin burns and eye damage. lse respiratory irritation. cted of damaging the unborn child. lse damage to organs through prolonged or re- ire. ic to aquatic life with long lasting effects.
Preca	autionary statements	P202 Do not h and understoo P260 Do not b P264 Wash sk P271 Use only P273 Avoid rel	reathe mist or vapours. in thoroughly after handling. outdoors or in a well-ventilated area. lease to the environment. otective gloves/ protective clothing/ eye protec-
		Do NOT induc CENTER/ doc P303 + P361 - immediately al shower. Imme P304 + P340 - and keep com POISON CEN P305 + P351 - water for sever	<ul> <li>P353 + P310 IF ON SKIN (or hair): Take off</li> <li>I contaminated clothing. Rinse skin with water/</li> <li>diately call a POISON CENTER/ doctor.</li> <li>P310 IF INHALED: Remove person to fresh air</li> <li>fortable for breathing. Immediately call a</li> <li>TER/ doctor.</li> <li>P338 + P310 IF IN EYES: Rinse cautiously wit</li> <li>ral minutes. Remove contact lenses, if present</li> <li>Continue rinsing. Immediately call a POISON</li> </ul>

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P312 Call a POISON CENTER/ doctor if you feel unwell. P363 Wash contaminated clothing before reuse. P391 Collect spillage.

#### Storage:

P405 Store locked up.

#### Disposal:

P501 Dispose of contents/ container to an approved waste disposal plant.

#### Physical and chemical hazards

Not classified based on available information.

#### Health hazards

May be harmful if swallowed. Causes severe skin burns and eye damage. Causes serious eye damage. Suspected of damaging the unborn child. May cause respiratory irritation. May cause damage to organs through prolonged or repeated exposure.

#### **Environmental hazards**

Very toxic to aquatic life. Very toxic to aquatic life with long lasting effects.

#### Other hazards which do not result in classification

None known.

#### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

#### Components

Chemical name	CAS-No.	Concentration (% w/w)
1,3-Dioxan-5-ol	4740-78-7	>= 70 -< 90
Sulfamethoxazole	723-46-6	>= 10 -< 20
Ethanolamine	141-43-5	>= 5 -< 10
Trimethoprim	738-70-5	>= 3 -< 10

#### 4. FIRST AID MEASURES

General advice	In the case of accident or if you feel unwell, seek me vice immediately. When symptoms persist or in all cases of doubt seek advice.	
If inhaled	If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention immediately.	
In case of skin contact	In case of contact, immediately flush skin with plenty for at least 15 minutes while removing contaminated and shoes.	

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In c	ase of eye contact	:		fore reuse. shoes before reuse. t, immediately flush eyes with plenty of water	
lf sv	If swallowed		If easy to do, remove contact lens, if worn. Get medical attention immediately. If swallowed, DO NOT induce vomiting. If vomiting occurs have person lean forward. Call a physician or poison control centre immediately.		
and	Most important symptoms and effects, both acute and delayed		Rinse mouth thoroughly with water. Never give anything by mouth to an unconscious person. May be harmful if swallowed. Causes serious eye damage. May cause respiratory irritation. Suspected of damaging the unborn child. May cause damage to organs through prolonged or repeated exposure.		
	tection of first-aiders es to physician	<ul> <li>Causes severe burns.</li> <li>Causes digestive tract burns.</li> <li>First Aid responders should pay attention to self-protect and use the recommended personal protective equipm when the potential for exposure exists (see section 8).</li> </ul>			
		•		cally and supportively.	
	able extinguishing media	:	Water spray Alcohol-resistant t Carbon dioxide (C Dry chemical		
Uns	uitable extinguishing dia	:	None known.		
Spe figh	cific hazards during fire- ting	:	Exposure to comb	oustion products may be a hazard to health.	
Haz	ardous combustion prod-	:	Nitrogen oxides (I Sulphur oxides Carbon oxides	NOx)	
Spe ods	cific extinguishing meth-	:	cumstances and t Use water spray t	g measures that are appropriate to local cir- the surrounding environment. to cool unopened containers. ged containers from fire area if it is safe to do	
Spe	cial protective equipment	:	In the event of fire	e, wear self-contained breathing apparatus.	



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for fi	refighters		Use personal pro	tective equipment.
6. ACCID	ENTAL RELEASE MEAS	SUF	RES	
tive e	onal precautions, protec- equipment and emer- ey procedures	:	Follow safe handl	tective equipment. ing advice (see section 7) and personal pro- recommendations (see section 8).
Envi	ronmental precautions	:	Prevent spreading barriers). Retain and dispos	akage or spillage if safe to do so. g over a wide area (e.g. by containment or oil se of contaminated wash water. should be advised if significant spillages
	ods and materials for ainment and cleaning up	:	For large spills, pr ment to keep mat be pumped, store Clean up remaining bent. Local or national posal of this mate employed in the of mine which regula Sections 13 and f	t absorbent material. rovide dyking or other appropriate contain- erial from spreading. If dyked material can recovered material in appropriate container. ng materials from spill with suitable absor- regulations may apply to releases and dis- rial, as well as those materials and items leanup of releases. You will need to deter- ations are applicable. 15 of this SDS provide information regarding tional requirements.

#### 7. HANDLING AND STORAGE

Handling		
Technical measures	: See Engineering measures under EXPOSURE CONTROLS/PERSONAL PROTECTION section.	
Local/Total ventilation	: If sufficient ventilation is unavailable, use with local extremely ventilation.	naust
Advice on safe handling	<ul> <li>Do not get on skin or clothing.</li> <li>Do not breathe mist or vapours.</li> <li>Do not swallow.</li> <li>Do not get in eyes.</li> <li>Wash skin thoroughly after handling.</li> <li>Handle in accordance with good industrial hygiene and practice, based on the results of the workplace exposusessment</li> <li>Keep container tightly closed.</li> <li>Already sensitised individuals, and those susceptible</li> </ul>	



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		:		es, chronic or recurrent respiratory disease, eir physician regarding working with respira- nsitisers.
Avoidance of contact		:	Do not eat, drink	or smoke when using this product. ent spills, waste and minimize release to the
Stora	ge			
Condi	tions for safe storage		Store locked up. Keep tightly close Keep in a cool, w	abelled containers. ed. ell-ventilated place. ice with the particular national regulations.
Materi	als to avoid	:	Do not store with	the following product types: stances and mixtures
Packa	ging material	:	Unsuitable materi	al: None known.

### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### Components with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parame- ters / Permissible concentration	Basis
Sulfamethoxazole	723-46-6	TWA	OEB 2 (>= 100 < 1000 μg/m3)	Internal
Ethanolamine	141-43-5	PC-TWA	8 mg/m3	CN OEL
		PC-STEL	15 mg/m3	CN OEL
		TWA	3 ppm	ACGIH
		STEL	6 ppm	ACGIH
Trimethoprim	738-70-5	TWA	400 μg/m3 (OEB 2)	Internal

Engineering measures :	Use appropriate engineering controls and manufacturing technologies to control airborne concentrations (e.g., drip- less quick connections). All engineering controls should be implemented by facility design and operated in accordance with GMP principles to protect products, workers, and the environment. Laboratory operations do not require special containment.
Personal protective equipmer	ıt
Respiratory protection :	If adequate local exhaust ventilation is not available or expo- sure assessment demonstrates exposures outside the rec-

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	ter type ace protection	: Combined part : Wear safety gla If the work env mists or aeroso Wear a facesh	idelines, use respiratory protection. iculates and organic vapour type asses with side shields or goggles. ironment or activity involves dusty conditions, ols, wear the appropriate goggles. ield or other full face protection if there is a rect contact to the face with dusts, mists, or
Hand	and body protection protection aterial		or laboratory coat. tant gloves
Hygie	ne measures	eye flushing sy ing place. When using do Wash contamin The effective o engineering co appropriate de	chemical is likely during typical use, provide stems and safety showers close to the work- o not eat, drink or smoke. hated clothing before re-use. peration of a facility should include review of ntrols, proper personal protective equipment, gowning and decontamination procedures, ene monitoring, medical surveillance and the trative controls.

### 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	:	liquid
Colour	:	light yellow
Odour	:	No data available
Odour Threshold	:	No data available
рН	:	9.5 - 10.5
Melting point/freezing point	:	No data available
Initial boiling point and boiling range	:	No data available
Flash point	:	No data available
Evaporation rate	:	No data available
Flammability (solid, gas)	:	Not applicable
Flammability (liquids)	:	No data available
Upper explosion limit / Upper flammability limit	:	No data available



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Lower explosion limit / Lower flammability limit	:	No data available
Vapour pressure	:	No data available
Relative vapour density	:	No data available
Relative density	:	No data available
Density	:	1.050 - 1.230 g/cm³
Solubility(ies) Water solubility	:	No data available
Partition coefficient: n- octanol/water	:	Not applicable
Auto-ignition temperature	:	No data available
Decomposition temperature	:	No data available
Viscosity Viscosity, kinematic	:	No data available
Explosive properties	:	Not explosive
		<u> </u>
Oxidizing properties	:	The substance or mixture is not classified as oxidizing.
Molecular weight	:	No data available
Particle characteristics Particle size	:	Not applicable

### **10. STABILITY AND REACTIVITY**

Reactivity Chemical stability Possibility of hazardous reac- tions	::	Not classified as a reactivity hazard. Stable under normal conditions. Can react with strong oxidizing agents.
Conditions to avoid	:	None known.
Incompatible materials	:	Oxidizing agents
		Acids
Hazardous decomposition products	:	No hazardous decomposition products are known.

#### 11. TOXICOLOGICAL INFORMATION

Exposure routes

: Inhalation

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			Skin contact Ingestion Eye contact	
	<b>te toxicity</b> be harmful if swallowed.			
Proc	duct:			
Acut	te oral toxicity	:	Acute toxicity estine Method: Calculation	
Acut	te inhalation toxicity	:	Acute toxicity estin Exposure time: 4 Test atmosphere: Method: Calculation	h vapour
Acut	te dermal toxicity	:	Acute toxicity estine Method: Calculation	mate: > 5,000 mg/kg on method
Con	nponents:			
1,3-I	Dioxan-5-ol:			
Acut	te oral toxicity	:	LD50 (Rat): > 5,00	00 mg/kg
Acut	te dermal toxicity	:	LD50 (Rat): > 2,000 mg/kg Remarks: Based on data from similar materials	
Sulf	amethoxazole:			
	te oral toxicity	:	LD50 (Mouse): 2,3	300 mg/kg
Etha	anolamine:			
Acut	te oral toxicity	:	LD50 (Rat): 1,089	) mg/kg
Acut	te inhalation toxicity	:	Acute toxicity estin Exposure time: 4 Test atmosphere: Method: Expert ju Remarks: Based of	h vapour
Acut	te dermal toxicity	:	LD50 (Rabbit, ferr	nale): 1,018 mg/kg
Trim	nethoprim:			
Acut	te oral toxicity	:	LD50 (Rat): 1,500	) - 5,300 mg/kg
			LD50 (Mouse): 1,	910 - 7,000 mg/kg
Acut	te toxicity (other routes of	:	LD50 (Rat): 400 -	500 mg/kg

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admin	istration)		Application Route	e: Intraperitoneal
			LD50 (Dog): 90 m Application Route	
			LD50 (Mouse): 13 Application Route	
Skin o	corrosion/irritation			
	es severe burns.			
	oonents:			
1,3-Di Speci	ioxan-5-ol:		Rabbit	
Metho	bd	:	OECD Test Guide	eline 404
Resul Rema		:	No skin irritation Based on data fro	om similar materials
	methoxazole:		Rabbit	
Speci Resul		:	No skin irritation	
<b>E</b> (1,				
Speci	iolamine: es		Rabbit	
Resul		:		minutes to 1 hour of exposure
Serio	us eye damage/eye ir	ritati	ion	
	es serious eye damage			
Comp	oonents:			
1,3-Di	ioxan-5-ol:			
Speci		:	Rabbit	
Resul Metho		:	OECD Test Guide	reversing within 21 days eline 405
Rema	rks	:	Based on data fro	om similar materials
Ethan	iolamine:			
Speci		:	Rabbit	
Resul	t	:	Irreversible effect	s on the eye
Respi	iratory or skin sensiti	satio	on	
Skin s	sensitisation			

Not classified based on available information.

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#### **Respiratory sensitisation**

Not classified based on available information.

#### Components:

### 1,3-Dioxan-5-ol:

	: Maximisation Test
restrype	
Exposure routes	: Skin contact
Species	: Guinea pig
Method	: OECD Test Guideline 406
Result	: negative
Test Type Exposure routes Species Method Result Remarks	: Based on data from similar materials

#### Sulfamethoxazole:

Test Type	: Magnusson-Kligman-Test
Exposure routes	: Skin contact
Species	: Guinea pig
Test Type Exposure routes Species Result	: negative

#### Ethanolamine:

Test Type	: Maximisation Test
Exposure routes	: Skin contact
Species	: Guinea pig
Test Type Exposure routes Species Result	: negative

#### Trimethoprim:

Test Type	: Maximisation Test
Exposure routes	: Dermal
Species	: Guinea pig
Test Type Exposure routes Species Result	: Not a skin sensitizer.

### Germ cell mutagenicity

Not classified based on available information.

#### Components:

1,3-Dioxan-5-ol:		
Genotoxicity in vitro	:	Test Type: Bacterial reverse mutation assay (AMES) Result: negative
		Test Type: In vitro mammalian cell gene mutation test Result: negative
Genotoxicity in vivo	:	Test Type: Mammalian erythrocyte micronucleus test (in vivo cytogenetic assay) Species: Mouse Result: negative

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		Remarks: Based on data from similar materials
Sulfa	methoxazole:	
Genot	toxicity in vitro	: Test Type: Bacterial reverse mutation assay (AMES) Result: negative
		Test Type: Chromosome aberration test in vitro Result: negative
Genot	toxicity in vivo	: Test Type: Mutagenicity (in vivo mammalian bone-marrow cytogenetic test, chromosomal analysis) Species: Humans Result: negative
Ethar	nolamine:	
	toxicity in vitro	: Test Type: Bacterial reverse mutation assay (AMES) Result: negative
		Test Type: In vitro mammalian cell gene mutation test Method: OECD Test Guideline 476 Result: negative
		Test Type: Chromosome aberration test in vitro Result: negative
Genot	toxicity in vivo	<ul> <li>Test Type: Mammalian erythrocyte micronucleus test (in vivo cytogenetic assay)</li> <li>Species: Mouse</li> <li>Application Route: Ingestion</li> <li>Method: OECD Test Guideline 474</li> <li>Result: negative</li> </ul>
Trime	ethoprim:	
	toxicity in vitro	: Test Type: Bacterial reverse mutation assay (AMES) Result: negative
		Test Type: Chromosomal aberration Result: negative
		Test Type: In vitro mammalian cell gene mutation test Result: negative
		Test Type: DNA damage and repair, unscheduled DNA syn- thesis in mammalian cells (in vitro) Result: negative
Genot	toxicity in vivo	: Test Type: Micronucleus test Species: Rat

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П		Result: negative	e
		Test Type: Chro Species: Huma Result: negative	
		5	
	nogenicity lassified based on av	-	
Not c	• •	-	
Not c <u>Com</u>	lassified based on av	-	
Not c <u>Com</u> Sulfa	lassified based on av ponents: methoxazole: les	-	
Not c <u>Com</u> Sulfa Speci Applie	lassified based on av <u>ponents:</u> methoxazole: les cation Route	ailable information. : Mouse : Ingestion	
Not c <u>Com</u> Sulfa Speci Applie	lassified based on av <u>ponents:</u> methoxazole: les cation Route sure time	ailable information.	

Suspected of damaging the unborn child.

#### **Components:**

#### Ethanolamine:

Effects on fertility	<ul> <li>Test Type: Two-generation reproduction toxicity stud Species: Rat Application Route: Ingestion Method: OECD Test Guideline 416 Result: negative Remarks: Based on data from similar materials</li> </ul>	ly
Effects on foetal develop- ment	: Test Type: Embryo-foetal development Species: Rat Application Route: Ingestion Method: OECD Test Guideline 414 Result: negative	
Trimethoprim:		
Effects on fertility	: Test Type: Fertility Species: Rat Application Route: Oral Fertility: NOAEL: 70 mg/kg body weight Result: No effects on fertility	

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II		Remarks: Mat	ternal toxicity observed.
		Test Type: De	evelopment
		Species: Rat Application Ro	oute: Oral
		Developmenta	al Toxicity: LOAEL: 70 mg/kg body weight
			votoxic effects. ternal toxicity observed.
		Test Type: De Species: Rat	evelopment
		Application Ro	
			al Toxicity: LOAEL: 15 mg/kg body weight /otoxic effects., Teratogenic effects
		Test Type: De	
		Species: Ham Application Re	
			al Toxicity: LOAEL: 1.7 mg/kg body weight /otoxic effects., No teratogenic effects
		Test Type: De	
		Species: Rabl Application Ro	
		Developmenta	al Toxicity: LOAEL: 100 mg/kg body weight votoxic effects., No teratogenic effects
Repro sessm	ductive toxicity - As- nent	: Suspected of	damaging the unborn child.
STOT	- single exposure		
May c	ause respiratory irritation	on.	
<u>Comp</u>	oonents:		
Ethan	olamine:		
Asses	sment	: May cause re	spiratory irritation.
sтот	- repeated exposure		
	• •	s through prolonged	d or repeated exposure.
Comp	oonents:		
Ethan	olamine:		
Asses	sment		health effects observed in animals at concentra- g/l/6h/d or less.
Trime	thoprim:		

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Asse	ssment	: Causes damage exposure.	ge to organs through prolonged or repeated
Repe	eated dose toxicity		
Com	ponents:		
Etha	nolamine:		
	EL cation Route sure time	: Rat : > 120 mg/kg : Ingestion : > 75 Days : Based on data	from similar materials
	EL cation Route sure time	: Rat : >= 0.15 mg/l : inhalation (dus : 28 Days : OECD Test Gi	
Trime	ethoprim:		
Spec NOAI LOAE Appli Expo	ies EL	: Rat : 100 mg/kg : 300 mg/kg : Oral : 6 Months : Bone marrow,	Liver, Pituitary gland, Thyroid
Expo		: Rat : 300 mg/kg : Oral : 3 Months : Bone marrow	
Expo	EL	: Dog : 2.5 mg/kg : 45 mg/kg : Oral : 3 Months : Blood, Thyroid	
-	ration toxicity lassified based on ava	ilable information.	

#### Experience with human exposure

### Components:

Trimethoprim:



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Ing	gestion	:	Target Organs: Bone marrow Symptoms: Abdominal pain, Nausea, Vomiting, skin rash, Dizziness, Headache, mental depression, confusion
12. EC	DLOGICAL INFORMATION	N	
Ec	otoxicity		
<u>Co</u>	omponents:		
1,3	3-Dioxan-5-ol:		
То	xicity to fish	:	LL50 (Pimephales promelas (fathead minnow)): > 100 mg/l Exposure time: 96 h Remarks: Based on data from similar materials
	xicity to daphnia and other uatic invertebrates	:	EL50 (Daphnia magna (Water flea)): > 100 mg/l Exposure time: 48 h Remarks: Based on data from similar materials
	xicity to algae/aquatic ants	:	EL50 (Pseudokirchneriella subcapitata (green algae)): > 100 mg/l Exposure time: 72 h Remarks: Based on data from similar materials
			NOELR (Pseudokirchneriella subcapitata (green algae)): > 1 mg/l Exposure time: 72 h Remarks: Based on data from similar materials
То	xicity to microorganisms	:	EC10: > 1,000 mg/l Exposure time: 3 h Method: OECD Test Guideline 209 Remarks: Based on data from similar materials
II Su	Ifamethoxazole:		
	xicity to fish	:	LC50 (Oryzias latipes (Japanese medaka)): 562.5 mg/l Exposure time: 96 h
	xicity to daphnia and other uatic invertebrates	:	EC50 (Ceriodaphnia dubia (water flea)): 0.21 mg/l Exposure time: 48 h
	xicity to algae/aquatic ants	:	EC50 (Synechococcus leopoliensis (blue-green algae)): 0.0268 mg/l Exposure time: 96 h
			NOEC (Synechococcus leopoliensis (blue-green algae)): 0.0059 mg/l Exposure time: 96 h
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M-Fac icity)	tor (Acute aquatic tox-	:	10	
	y to fish (Chronic tox-	:	NOEC (Danio reri Exposure time: 2	io (zebra fish)): 0.533 mg/l 1 d
	y to daphnia and other c invertebrates (Chron-	:	NOEC (Daphnia r Exposure time: 30	magna (Water flea)): 0.01 mg/l 0 d
	tor (Chronic aquatic	:	10	
	y to microorganisms	:		sludge): 3.76 mg/l est Guideline 301D
Ethan	olamine:			
Toxicit	y to fish	:	Exposure time: 96	arpio (Carp)): 349 mg/l 6 h • 67/548/EEC, Annex V, C.1.
	y to daphnia and other c invertebrates	:	Exposure time: 48	nagna (Water flea)): 65 mg/l 3 h e 67/548/EEC, Annex V, C.2.
Toxicit plants	y to algae/aquatic	:	ErC50 (Pseudokin mg/l Exposure time: 72 Method: OECD T	
			NOEC (Pseudoki Exposure time: 72 Method: OECD T	
Toxicit icity)	y to fish (Chronic tox-	:	NOEC (Oryzias la Exposure time: 4 <sup>-</sup> Method: OECD T	
aquatio	y to daphnia and other c invertebrates (Chron-	:	NOEC (Daphnia r Exposure time: 2 <sup>2</sup>	magna (Water flea)): 0.85 mg/l 1 d
ic toxic Toxicit	y to microorganisms	:	EC10 (Pseudomo Exposure time: 30 Method: OECD T	
Trimet	thoprim:			
Toxicit	y to fish	:	LC50 (Pimephale Exposure time: 96	s promelas (fathead minnow)): 100 mg/l 5 h
	y to daphnia and other c invertebrates	:	EC50 (Daphnia m Exposure time: 48	nagna Straus): 92 mg/l 3 h

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Toxicity to algae/aquatic plants		EC50 (Pseudokirchneriella subcapitata (microalgae)): 80.3 mg/l Exposure time: 72 h
		NOEC (Pseudokirchneriella subcapitata (green algae)): 16 mg/l Exposure time: 72 h
		EC50 (Anabaena flos-aquae): 253 mg/l Exposure time: 72 h
		EC10 (Anabaena flos-aquae): 26 mg/l Exposure time: 72 h
Toxicity to fish (Chronic tox- icity)	:	NOEC (Zebrafish): 0.157 mg/l Exposure time: 21 d
aquatic invertebrates (Chron-	:	NOEC (Daphnia magna (Water flea)): 6 mg/l Exposure time: 21 d
ic toxicity) Toxicity to microorganisms :	:	EC10: 16.7 mg/l Exposure time: 3 hrs Test Type: Respiration inhibition Method: OECD Test Guideline 209
		EC50: > 1,000 mg/l Exposure time: 3 hrs Test Type: Respiration inhibition Method: OECD Test Guideline 209
Persistence and degradabilit	t <b>y</b>	
Components:		
1,3-Dioxan-5-ol:		
Biodegradability	:	Result: Inherently biodegradable. Remarks: Based on data from similar materials
Sulfamethoxazole:		
Biodegradability	:	Result: Not readily biodegradable. Biodegradation: 0 % Exposure time: 28 d Method: OECD Test Guideline 301D
Ethanolamino:		

Ethanolamine:		
Biodegradability	:	Result: Readily biodegradable. Biodegradation: > 90 %

according to GB/T 16483 and GB/T 17519



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		Exposure time: 21 d Method: OECD Test Guideline 301A	
Trimethoprim: Biodegradability		<ul> <li>Result: Not readily biodegradable. Biodegradation: 4 % Exposure time: 28 d Method: OECD Test Guideline 301D</li> <li>Result: Not inherently biodegradable. Biodegradation: 0 % Exposure time: 28 d Method: OECD Test Guideline 302B</li> </ul>	
Bioac	cumulative potentia		
Comp	oonents:		
Partiti	i <b>oxan-5-ol:</b> on coefficient: n- ol/water	: log Pow: -0.65	
	methoxazole: cumulation	: Species: Cyprinus carpio (Carp) Bioconcentration factor (BCF): < 120	
	on coefficient: n- ol/water	: log Pow: 0.89	
Partiti	olamine: on coefficient: n- ol/water	: log Pow: -2.3 Method: OECD Test Guideline 107	
Partiti octano	thoprim: on coefficient: n- ol/water	: log Pow: 0.91	
	<b>ity in soil</b> ta available		
	adverse effects ta available		

Waste from residues	: Do not dispose of waste into sewer. Dispose of in accordance with local regulations.
	Dispose of in accordance with local regulations.



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Conta	Contaminated packaging		<ul> <li>Empty containers should be taken to an approved waste ha dling site for recycling or disposal.</li> <li>If not otherwise specified: Dispose of as unused product.</li> </ul>		
14. TRAN	SPORT INFORMATION	I			
Interi	national Regulations				
Prope Class Packi Label	umber er shipping name s ing group	:	UN 2491 ETHANOLAMIN 8 III 8 no	E SOLUTION	
UN/IE Prope Class Packi Label Packi aircra Packi	er shipping name ing group ls ing instruction (cargo		UN 2491 Ethanolamine so 8 III Corrosive 856 852	blution	
UN n Prope Class Packi Label EmS	ing group		UN 2491 ETHANOLAMIN (Sulfamethoxazo 8 III 8 F-A, S-B yes		
	• •	-		POL 73/78 and the IBC Code	
	pplicable for product as	sup	plied.		
Natio	nal Regulations				
UN n	<b>944/12268</b> umber er shipping name	:	UN 2491 ETHANOLAMIN	E SOLUTION	



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#### Special precautions for user

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

#### 15. REGULATORY INFORMATION

#### National regulatory information

#### Law on the Prevention and Control of Occupational Diseases

### Regulations on Safety Management of Hazardous Chemicals Catalogue of Hazardous Chemicals This product is not listed in the cata-5 logue of hazardous chemicals, but it meets the definition of hazardous chemicals and its principles of determination. Identification of Major Hazard Installations for Hazardous Chemicals (GB : Not listed 18218) Hazardous Chemicals for Priority Management under : Not listed SAWS Regulations on Labour Protection in Workplaces where Toxic Substances are Used Catalogue of Highly Toxic Chemicals : Not listed Regulation of Environmental Management on the First Import of Chemicals and the Import and Export of Toxic Chemicals China Severely Restricted Toxic Chemicals for Import : Not listed and Export **Regulation on the Administration of Precursor Chemicals** Catalogue and Classification of Precursor Chemicals : Not listed Yangtze River Protection Law This product does not contain any dangerous chemicals prohibited for inland river transport. The components of this product are reported in the following inventories:

DSL	:	not determined
AICS	:	not determined
IECSC	:	not determined



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#### **16. OTHER INFORMATION**

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Further information		
Sources of key data used to compile the Safety Data Sheet	:	Internal technical data, data from raw material SDSs, OECD eChem Portal search results and European Chemicals Agen- cy, http://echa.europa.eu/

Items where changes have been made to the previous version are highlighted in the body of this document by two vertical lines.

Date format	:	yyyy/mm/dd		
Full text of other abbreviations				
ACGIH CN OEL		USA. ACGIH Threshold Limit Values (TLV) Occupational exposure limits for hazardous agents in the workplace - Chemical hazardous agents.		
ACGIH / TWA ACGIH / STEL CN OEL / PC-TWA CN OEL / PC-STEL	:	8-hour, time-weighted average Short-term exposure limit Permissible concentration - time weighted average Permissible concentration - short term exposure limit		

AIIC - Australian Inventory of Industrial Chemicals; ANTT - National Agency for Transport by Land of Brazil; ASTM - American Society for the Testing of Materials; bw - Body weight; CMR -Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; Nch - Chilean Norm; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NOM - Official Mexican Norm; NTP - National Toxicology Program; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TDG - Trans-



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portation of Dangerous Goods; TECI - Thailand Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative; WHMIS - Workplace Hazardous Materials Information System

#### Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and shall not be considered a warranty or quality specification of any type. The information provided relates only to the specific material identified at the top of this SDS and may not be valid when the SDS material is used in combination with any other materials or in any process, unless specified in the text. Material users should review the information and recommendations in the specific context of their intended manner of handling, use, processing and storage, including an assessment of the appropriateness of the SDS material in the user's end product, if applicable.

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